

|   |         | Mane   | Synthyme Signment   | ************************************** |
|---|---------|--|---|--|
|   | LGR5    | leucine-rich repeat-containing G protein-coupled recep | tor 5 FEX, GPR49, GPR67, G-protein coupled Homo sapireceptor 49, G-protein coupled receptor 67, GRP49, HG38, Leucine-rich repeat-containing G-protein coupled receptor 5 precursor, MGC117008, Orphan G-protein coupled receptor HG38 | ens                                    |
| U | IniProt | 075478,  |   |  |

Q4VAM0,

Q4VAM2

OMIM 505567

NCBI Gene 8549 more than 1,500 organisms. 80,000 genes. 12 million sentences.

NCBI RefSeq NP\_003658 ...aiways up-to-date.

NCBI UniGene 8549

NCBI Accession AAH96325,

NCBI RefSeq NM 003667

AAH99650

Homologues of LGR5 ...

Interaction information for LGR5 👼 ...

Most recent information for LGR5 🗒 ... 👝 🚾

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In addition to two recently isolated mammalian LGRs (<u>leucine-rich repeat-containing</u>, <u>G protein</u>-coupled receptors), <u>LGR4</u> and <u>LGR7</u>, we further identified two new paralogs, <u>LGR6</u> and <u>LGR7</u>, for <u>givcoprotein</u> hormone receptors. [2000]



Recent studies indicated the evolution of an expanding family of homologous <u>leacine-rich repeat-containing</u>, <u>Q protein-coupled</u> receptors (LGRs), including the three known <u>glycoprotein [?]</u> hormone receptors; mammalian <u>LGR4</u> and LGR5 ; and LGRs in sea anemone, fly, and snail. [2000]



HG38 is most likely to be a receptor for a novel class of givesprotein ligands. [1998]



| HG38 is most closely related to members of the <u>already states</u> hormone receptor subfamily with approximately 35% overall identity at the protein sequence level. [1998]   |   |
|---|---|
| As with the <u>divcoprotein</u> hormone receptors, HG38 contains a long extracellular domain with a total of 16 <u>leucine</u> -rich repeats. [1998]  |   |
| Comparison of overall amino acid sequences indicated that LGR4 and LGR5 are closely related to each other but diverge, during evolution, from the homologous receptor found in snail and the mammalian <u>givcoprotein [7]</u> hormone receptors. [1998]  | * |
| The physiological role of an orphan <u>G protein-coupled receptor [7]</u> , LGR5 , was investigated by targeted deletion of this seven-transmembrane protein containing a large N-terminal extracellular domain with <u>leadine</u> -rich repeats. [2004]   |   |
| LGR5 null mice exhibited 100% neonatal lethality characterized by gastrointestinal tract dilation with air and an absence of milk in the stomach. [2004]  | * |
| The observed ankyloglossia <u>phenotype</u> provides a model for understanding the genetic basis of this craniofacial defect in humans and an opportunity to elucidate the physiological role of the LGR5 signaling system during <u>embryonic</u> development. [2004]  |   |
| Gross and histological examination revealed fusion of the tongue to the floor of and cavity in the mutant newtons and immunostaining of LGR5 are expression in the eximation of the tongue and in the mandible of the wild-type embryos. [2004]   | * |
| In contrast to the restricted tissue expression of gonadotropin and TSH receptors in <u>gonads</u> and <u>thyroid</u> , respectively, <u>LGR4</u> is expressed in diverse tissues including ovary, <u>testis</u> , adrenal, placenta, <u>thyrous</u> , <u>spinal cord</u> , and <u>thyroid</u> , whereas <u>LGR5</u> is found in muscle, placenta, <u>spinal cord</u> , and brain. [1998] |   |
| Moreover, introduction of mutant <u>beta-catenin [?]</u> into mouse <u>hepatocytes</u> in culture caused <u>up-requiation</u> of the <b>Gpr49</b> who mouse homologue. [2003]   |   |
| Overexpression of orphan <u>G-protein-coupled receptor (?)</u> , Gpr49 , in human hepatocellular carcinomas with beta-<br>catenin (?) mutations. [2003]   | # |
| Radiation hybrid mapping placed HG38 g into human chromosome 12q22-23. [1998]   | * |
| Northern blot analysis showed that HG38 was expressed in skeletal muscle, placenta, spinal cord, and various regions of the brain. [1998]   | * |
| In addition, expression of GPR49 induced transformation in a ligand-dependent manner and Knockdown of GPR49 mRNA level induced approximation tumor cells. [2006]  | * |
| However, we observed no induction of <u>GS</u> , <u>GPR49</u> or <u>GUT-1</u> in the five <b>inactivated</b> <u>Axin1</u> tumors. <u>beta-Catenin</u> dependent <u>transcriptional activation</u> in two <u>Axin1</u> -mutated HCC cell lines was much weaker than in <u>beta-catenin</u> demutated cell lines. [2007]  |   |
| These data therefore suggest that GATAS [7] also plays a role in <u>chandrogenesis</u> and that Gpr49 [7] is a potential direct <b>target</b> of GATA [7] regulation in this process. [2008]  |   |
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|  | Finally, we have identified conserved, canonical GATA [?] binding sites within the Gpr49 [?] gene locus, and show by EMSAs that GATA-5 [?] can bind to these sites in vitro. [2008]   |           |
|  | The expression pattern of Lgr5 suggests that it marks stem color in multiple adult tissues and cancers. [2007]  | <b>*</b>  |
|  | Thus, the aim of this study was to evaluate single-dose and steady-state bioequivalence of FEX 180 mg/PSE 240 mg 24-h compared with the individual formulations taken concurrently. [2005]  | *         |
|  | RESULTS: Pharmacokinetic parameters AUC0-infinity1 and Cmax1 following a single-dose (Day 1, dose 1), Cmax7, AUC0-24(7) at steady-state and Cmin7 measured at the end of the dosing interval (Day 9, dose 7) revealed between FEX 180 mg/PSE 240 mg combination tablet and the individual components taken concurrently. [2005] |           |
|  | Identification of stem cells in small intestine and colon by marker gene Lgr5. [2007]   |           |
|  | The Lgr5-positive crypt base columnar cell generated all epithelial lineages over a 60-day period, suggesting that it represents the standard of the small intestine and colon. [2007]  |           |
|  | The levels of expression of <u>N-acetylglucosamine-6-O-sulfotransferase [?] (GNSST</u> ), protein <u>tyrosine</u> phosphatase receptor M (PTPRmu), G protein-coupled receptor 49 (HG38) and <u>KIAA1099</u> protein were determined in childhood precursor-B ALL samples from a cohort of 116 Indian patients. [2006]           |           |
|  | CONCLUSIONS: These findings demonstrate that the <u>pharmacokinetics</u> of the new 24-h FEX 180 mg/ <u>PSE</u> 240 mg combination formulation are bioequivalent to the concurrent administration of the individual drug components. [2005]   |           |
|  | OBJECTIVE: A 24-h extended-release formulation of fexofenadine HCl 180 mg/ <u>pseudoephedrine</u> HCl 240 mg (FEX 180 mg/ <u>PSE</u> 240 mg) has recently been approved by the US <u>Food and Drug Administration</u> for symptom relief of seasonal <u>altergic rhinitis</u> , including nasal congestion. [2005]              |           |
|  | Seventh to tenth generation NPFs were cultured with or without 1 microg/ml <u>hopolysaccharide</u> (LPS) in the presence of various concentrations of FEX. [2004]   |           |
|  | The influence of fexofenadine hydrochloride (FEX; CAS [7] 138452-21-8) on the production of eosinophil chemoattractants, RANTES and eolaxin , from pasal polyp fibroblasts (NPFs) was examined in vitro. [2004]   |           |
|  | Simultaneous <u>wrodynamic</u> , neurophysiological, and radiological examinations employed during our studies enabled us to determine changes in these parameters due to FEX. [1976]   |           |
|  | We also show that the <u>G-protein coupled receptor [?]</u> , <u>Gpr49 [?]</u> , is a target of <u>GATA-6 [?]</u> regulation in differentiating <u>embryonal cardinoms</u> cells and that, in vivo, the expression domains of the two genes overlap within PCCs. [2008]   |           |
|  | Please cite the use of iHOP as "Hoffmann, R., Valencia, A. A gene network for navigating the literature. Nature Genetics 36, 664 (2004)" and a http://www.ihop-net.org/".  Special thanks to Chris Sander for his continuing support.   | s "iHOP - |